

VIRTUAL IMAGE DISPLAY WITH VIRTUAL KEYBOARD

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ABSTRACT

A device is provided which comprises a device housing; a virtual image display positioned within the device housing, including a microdisplay which forms a source object and an optical system which magnifies the source object to form a magnified virtual image, the optical system including a viewing optic adjacent a side of the device housing through which a user can view the magnified virtual image; a finger controllable mechanism by which the user can control an operation of the virtual image display; a processor which receives electronic signals from the finger controllable mechanism corresponding to the user's operation of the finger controllable mechanism; and logic performable by the processor, the logic comprising logic for causing a source object to be displayed by the microdisplay, logic for modifying the displayed source object in response to the electronic signals from the finger controllable mechanism, logic for causing the microdisplay to display a keyboard having a plurality of user selectable keys, and logic for displaying a cursor and allowing a user to employ the finger controllable mechanism to control movement of the displayed cursor, wherein when the cursor is positioned within a lateral footprint of the displayed keyboard, the cursor logic limits the positioning of the cursor to being position at one of the user selectable keys displayed on the displayed keyboard.